Fig. 1

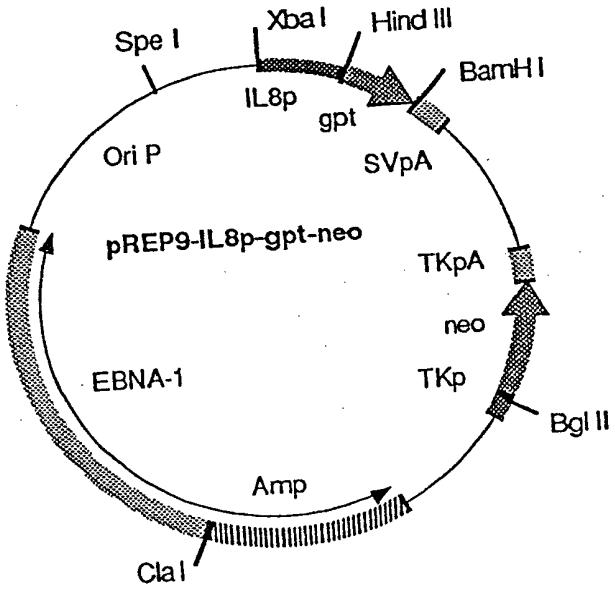

Spe I
Xba I
Hind III
BamH I
IL8p
gpt
SVpA
Ori P
pREP9-IL8p-gpt-neo
TKpA
neo
EBNA-1
TKp
Bgl II
Amp
Cla I

Fig. 2

primer SR1 :5'- ATGAGCTCAGAACCAGCTGTGGAATG
SacI

primer SR2 :5'- CTGTTCTGCGCCGTTACAAAACCAGAAAGTTAACTG

primer SR3 :5'- TTACTTCTGCTCTAAAAGCTGGCGCGCCCTGCAGT

primer SR4 :5'- TCACCTAAATCGTATGTGCCAGACATGATAAGATACAT

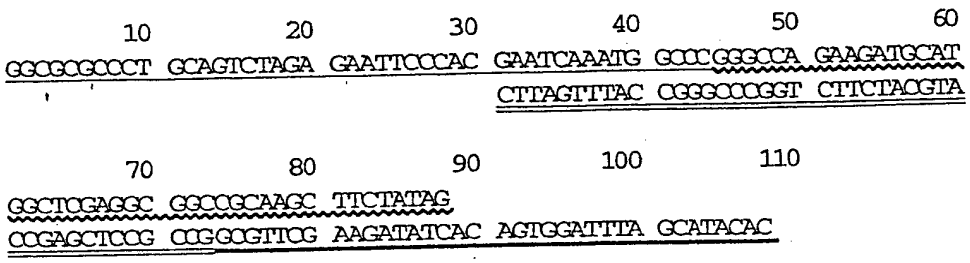
primer SR5 :5'- CAGTTAACTTTCTGGTTTTGTAACGGCGCAGAACAG

primer SR6 :5'- ACTGCAGGGCGCGCCAGCTTTTAGAGCAGAAGTAA

primer SR7 :5'- ATGTATCTTATCATGTCTGGCACATACGATTTAGGTGA

primer SR8 :5'- TAGGTACCGTCGACCCCTGAACCTGAAACATAAAA
KpnI

Fig. 3



MCS-1: DNA sequence represented by _____

MCS-2: DNA sequence represented by ~~~~~

MCS-3: DNA sequence represented by =====

MCS-4: DNA sequence represented by _____

Fig. 4

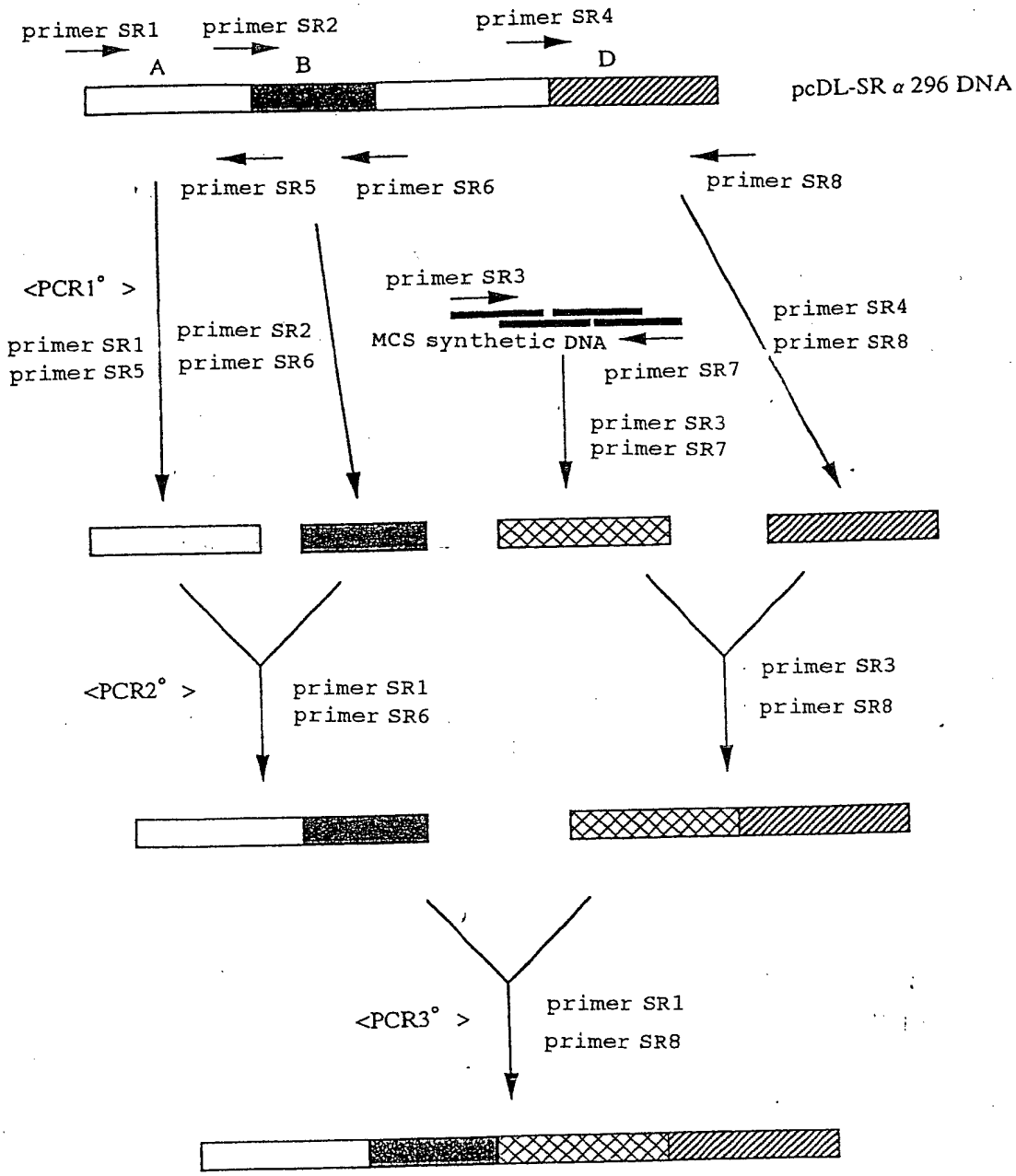

primer SR1
primer SR2
primer SR4
A
B
D
pcDL-SR α 296 DNA
primer SR5
primer SR6
primer SR8
<PCR1° >
primer SR1
primer SR5
primer SR2
primer SR6
primer SR3
MCS synthetic DNA
primer SR4
primer SR8
primer SR7
primer SR3
primer SR7
<PCR2° >
primer SR1
primer SR6
primer SR3
primer SR8
<PCR3° >
primer SR1
primer SR8

Fig. 5

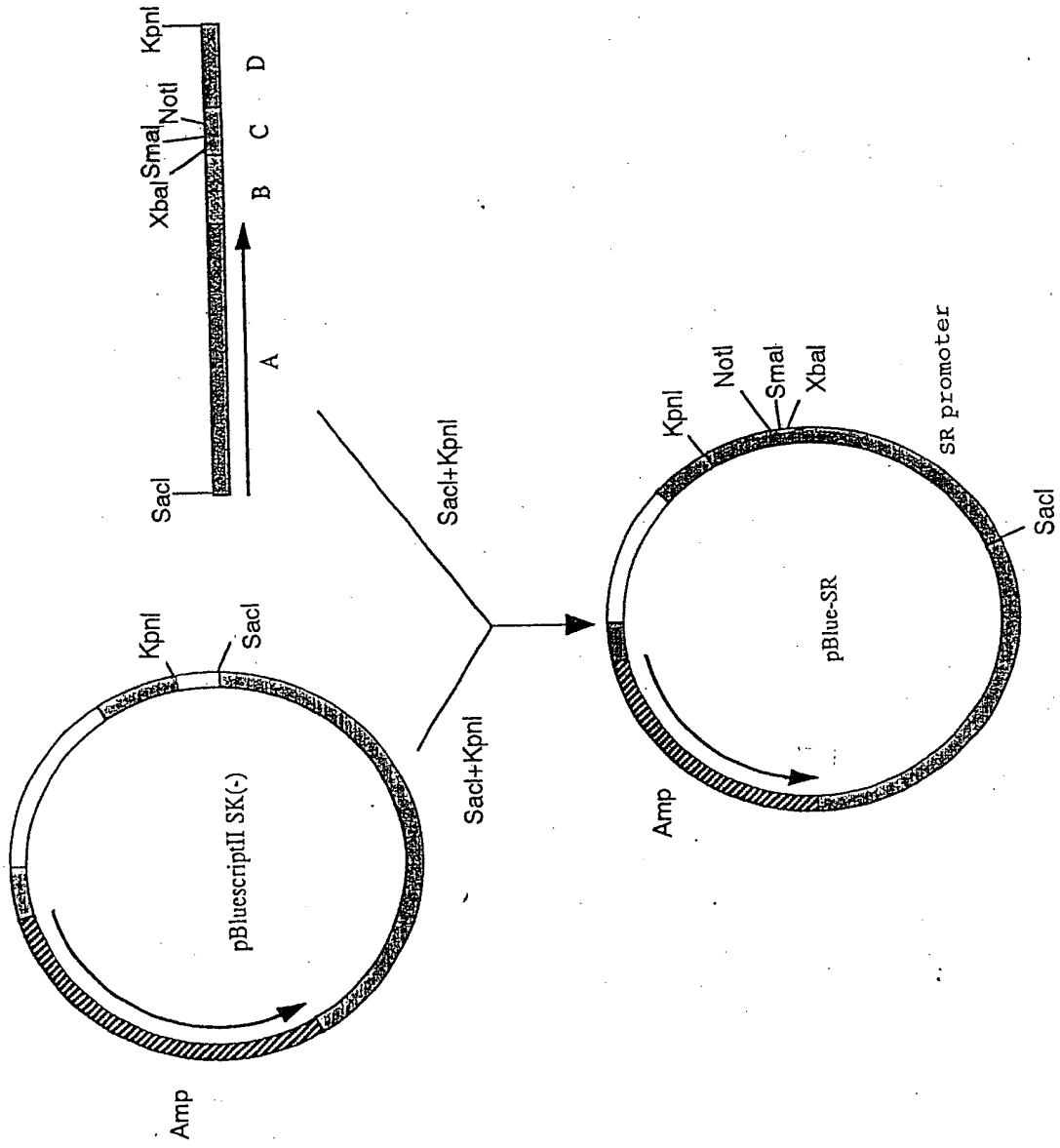

KpnI
NotI
SmaI
XbaI
SacI
A
B
C
D
SacI+KpnI
SacI+KpnI
KpnI
SacI
pBluescriptII SK(-)
Amp
KpnI
NotI
SmaI
XbaI
SR promoter
SacI
pBlue-SR
Amp

Fig. 6

SRO-1: 5'- ATGAGCTCAGAACCAGCTGTGGAATG -3'

SRO-2: 5'- CCGAGGCAAGCTTGGCCTCGGCCTCTGCATAAA -3'

SRO-3: 5'- CGAGGCCAAGCTTGCCTCGGCCTCTGAGCTATT -3'

SRO-4: 5'- ATGGTACCGCGGCCGCGTAACGGCGCAGAACAGAAAA -3'

Fig. 8

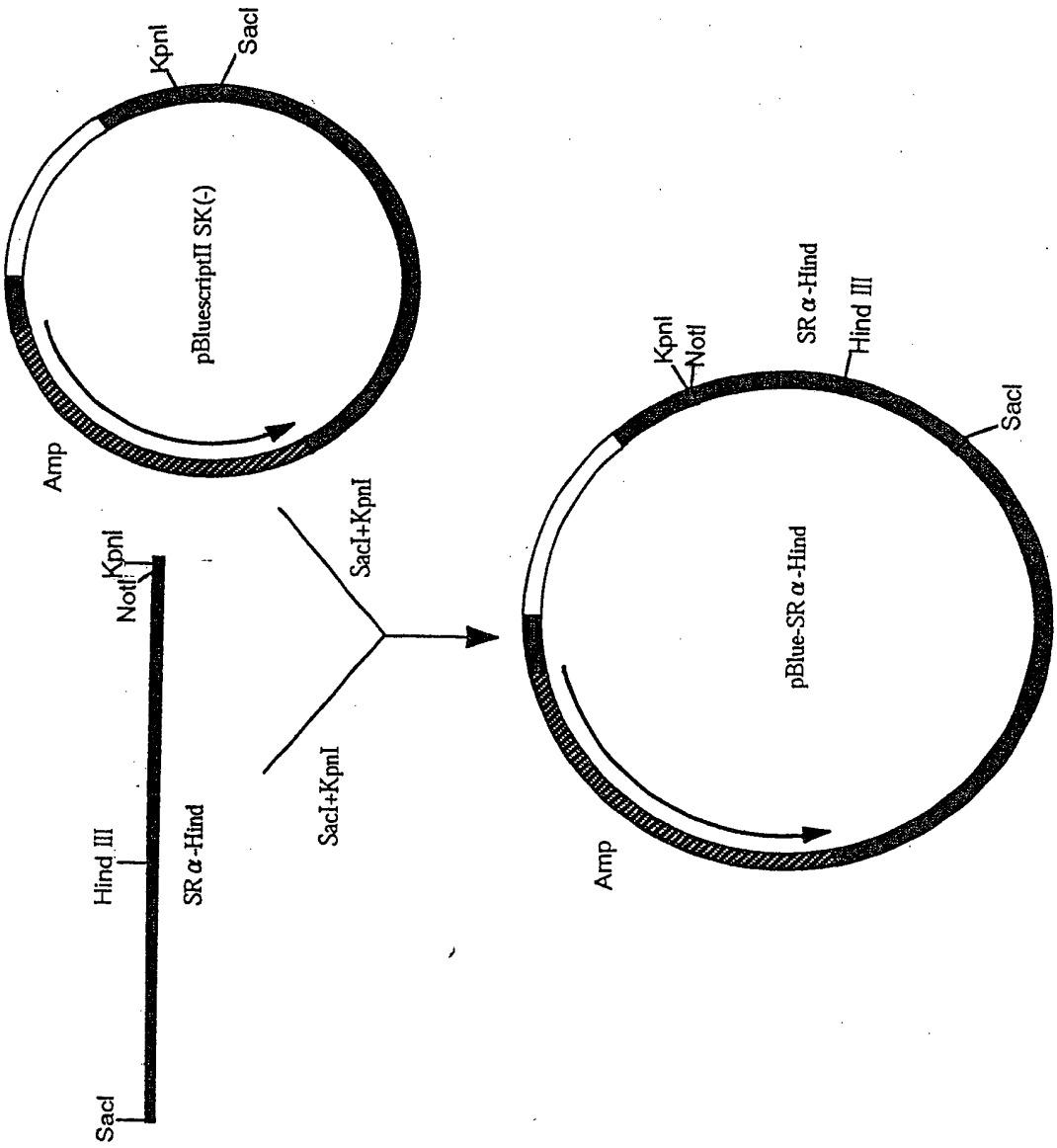

KpnI
SacI
pBluescriptII SK(-)
Amp
KpnI
NotI
Hind III
SR α-Hind
SacI
SacI+KpnI
SacI+KpnI
KpnI
NotI
SR α-Hind
Hind III
SacI
pBlue-SR α-Hind
Amp

Fig. 7

```
SacI
ATGAGCTCAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGGCTCCCCAGCAGGCAGAAGT
ATGCAAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAG
AAAGCATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCTAACTCCGCCCATCCCGCCCCTAACTCCGCCCAG
                                                    HindIII

TTCCGCCCATTCTCCGCCCCATGGCTGACTAATTTTTTTTATTTATGCAGAGGCCGAGGCCGAGGCCAAGCTTGCCTCGGCC
TCTGAGCTATTCCAGAAGTAGTGAGGAGGCTTTTTTGGAGGCCTAGGCTTTGGGCTCGCATCTCTCCTTCACGCGC
CCGCCGCCCTACCTGAGGCCGCCATCCACGCCGGTTGAGTCGCGTTCTGCCGCCTCCCGCCTGTGGTGCCTCCTGA
ACTGCGTCCGCCGTCTAGGTAAGTTTAAAGCTCAGGTCGAGACCGGGCCTTTGTCCGGCGCTCCCTTGGAGCCTAC
CTAGACTCAGCCGGCTCTCCACGCTTTGCCTGACCCTGCTTGCTCAACTCTACGTCTTTGTTTCGTTTTCTGTTCT
        NotI      Asp718I
GCGCCGTTACGCGGCCGCGGTACCAT
```

Fig. 9

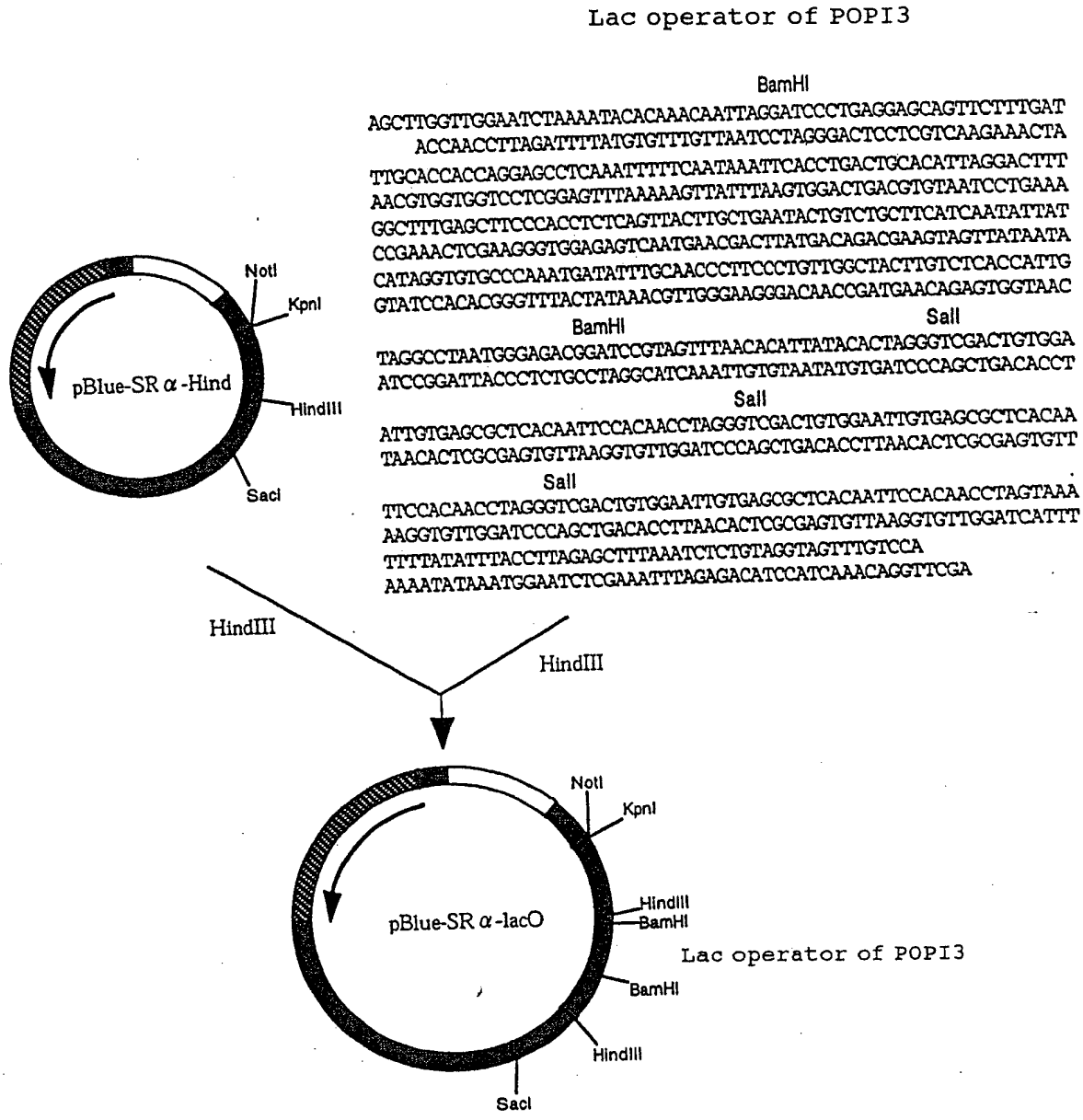

Lac operator of POPI3
BamHI
AGCTTGGTTGGAATCTAAAATACACAAACAATTAGGATCCCTGAGGAGCAGTTCTTTGAT
ACCAACCTTAGATTTTATGTGTTTGTTAATCCTAGGGACTCCTCGTCAAGAAACTA
TTGCACCACCAGGAGCCTCAAATTTTTCAATAAATTCACCTGACTGCACATTAGGACTTT
AACGTGGTGGTCCTCGGAGTTTAAAAAGTTATTTAAGTGGACTGACGTGTAATCCTGAAA
GGCTTTGAGCTTCCCACCTCTCAGTTACTTGCTGAATACTGTCTGCTTCATCAATATTAT
CCGAAACTCGAAGGGTGGAGAGTCAATGAACGACTTATGACAGACGAAGTAGTTATAATA
CATAGGTGTGCCCAAATGATATTTGCAACCCTTCCCTGTTGGCTACTTGTCTCACCATTG
GTATCCACACGGGTTTACTATAAACGTTGGGAAGGGACAACCGATGAACAGAGTGGTAAC
BamHI
SalI
TAGGCCTAATGGGAGACGGATCCGTAGTTTAACACATTATACACTAGGGTCGACTGTGGA
ATCCGGATTACCCTCTGCCTAGGCATCAAATTGTGTAATATGTGATCCCAGCTGACACCT
SalI
ATTGTGAGCGCTCACAATTCCACAACCTAGGGTCGACTGTGGAATTGTGAGCGCTCACAA
TAACACTCGCGAGTGTTAAGGTGTTGGATCCCAGCTGACACCTTAACACTCGCGAGTGTT
SalI
TTCCACAACCTAGGGTCGACTGTGGAATTGTGAGCGCTCACAATTCCACAACCTAGTAAA
AAGGTGTTGGATCCCAGCTGACACCTTAACACTCGCGAGTGTTAAGGTGTTGGATCATTT
TTTTATATTTACCTTAGAGCTTTAAATCTCTGTAGGTAGTTTGTCCA
AAAATATAAATGGAATCTCGAAATTTAGAGACATCCATCAAACAGGTTCGA
NotI
KpnI
pBlue-SR α-Hind
HindIII
SacI
HindIII
HindIII
NotI
KpnI
pBlue-SR α-lacO
HindIII
BamHI
Lac operator of POPI3
BamHI
HindIII
SacI

Fig. 10

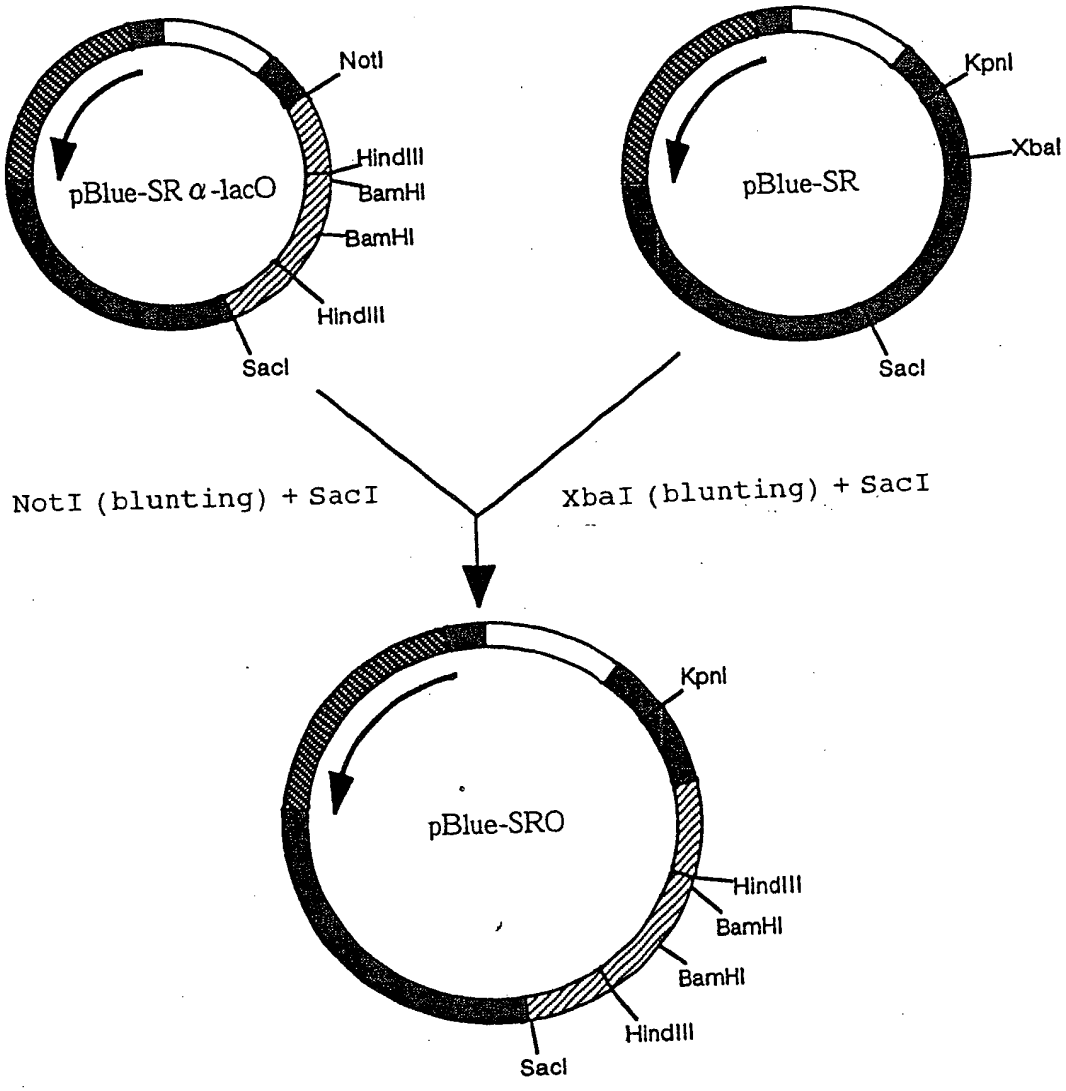

NotI
HindIII
BamHI
BamHI
HindIII
SacI
pBlue-SR α-lacO
KpnI
XbaI
SacI
pBlue-SR
NotI (blunting) + SacI
XbaI (blunting) + SacI
KpnI
HindIII
BamHI
BamHI
HindIII
SacI
pBlue-SRO

Fig. 11

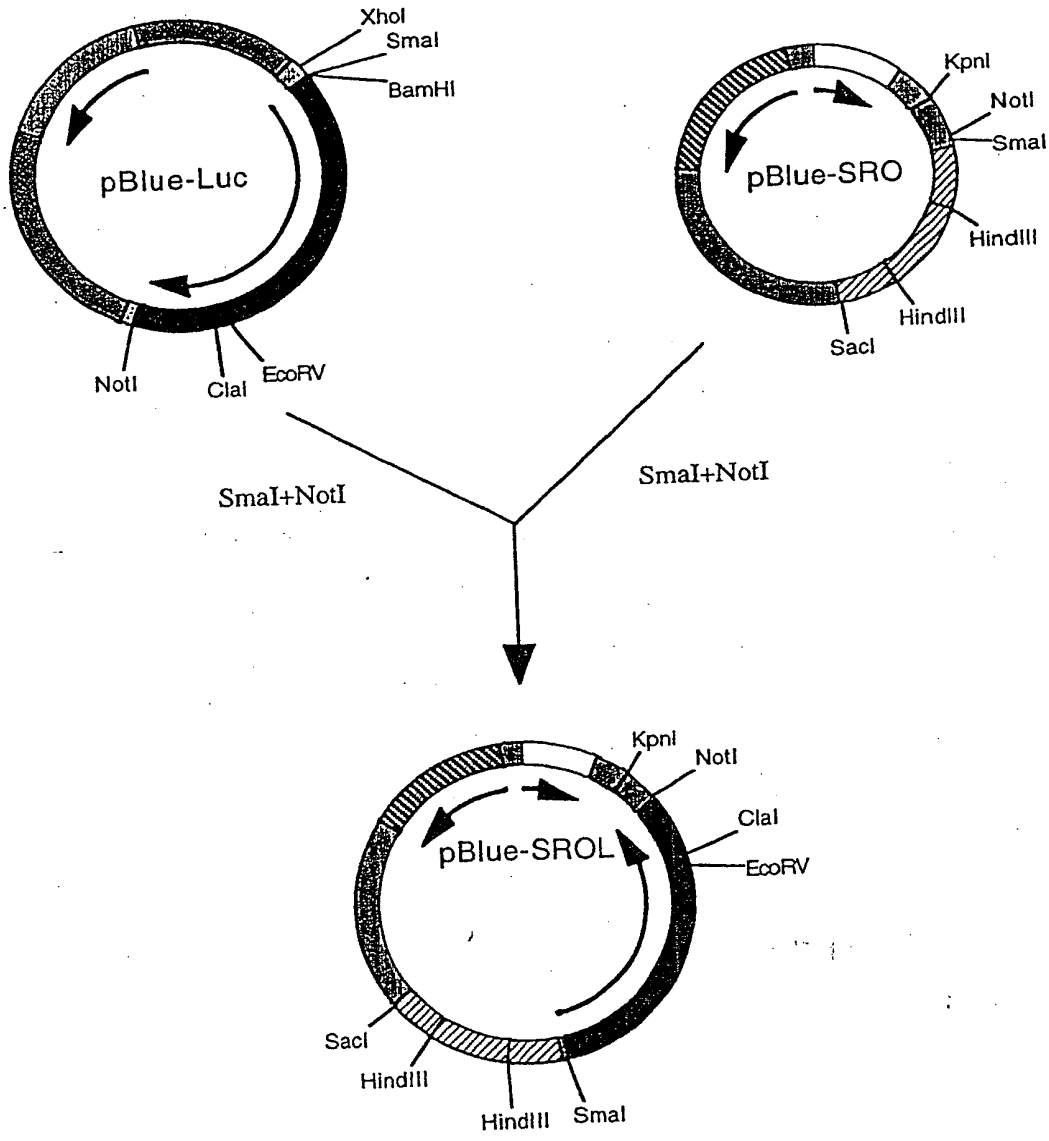

XhoI
SmaI
BamHI
pBlue-Luc
NotI
ClaI
EcoRV
KpnI
NotI
SmaI
pBlue-SRO
HindIII
HindIII
SacI
SmaI+NotI
SmaI+NotI
KpnI
NotI
ClaI
EcoRV
pBlue-SROL
SacI
HindIII
HindIII
SmaI

Fig. 12

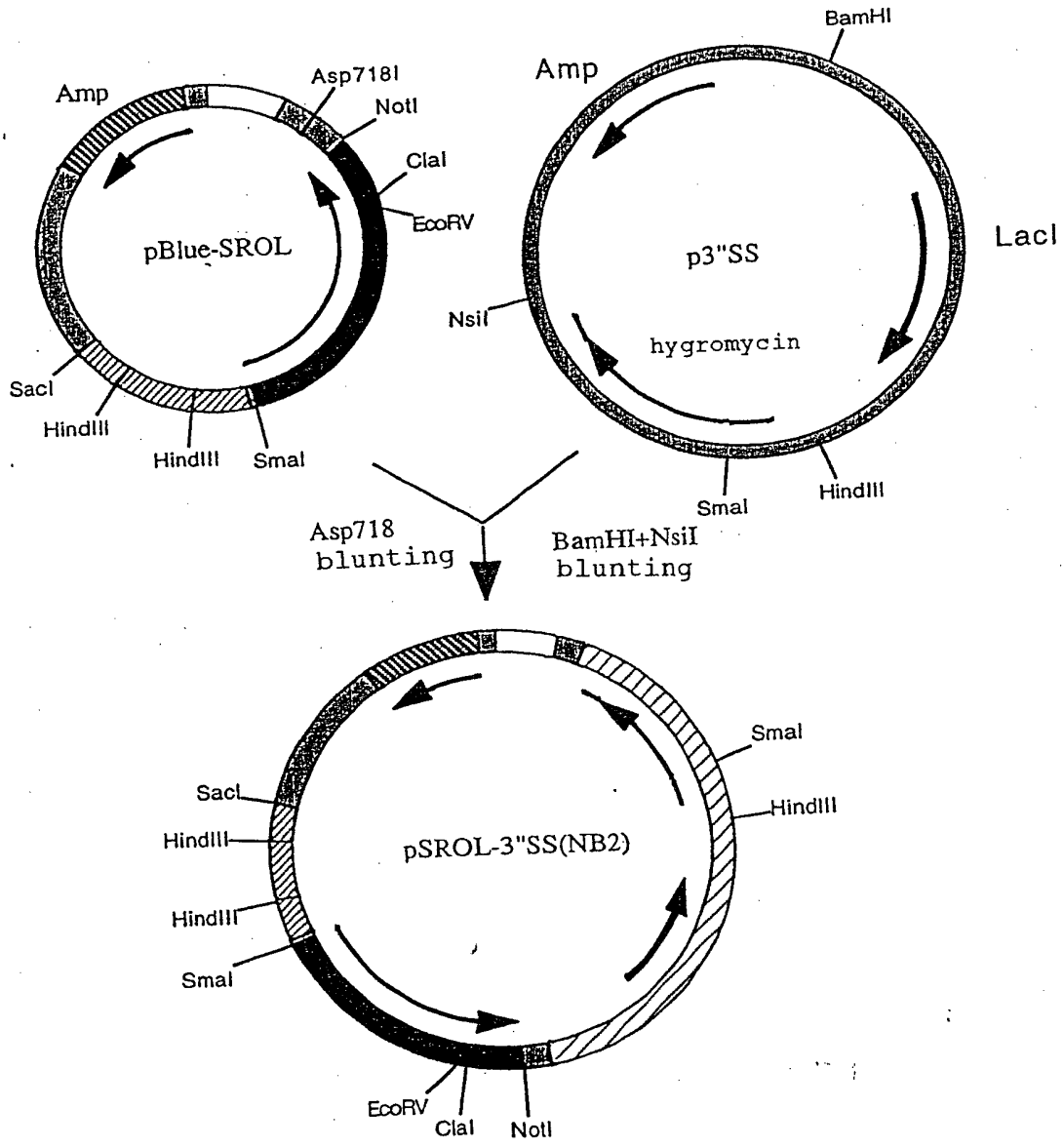

Amp
Asp718I
NotI
ClaI
EcoRV
pBlue-SROL
SacI
HindIII
HindIII
SmaI
BamHI
Amp
p3"SS
hygromycin
NsiI
LacI
SmaI
HindIII
Asp718
blunting
BamHI+NsiI
blunting
SmaI
HindIII
SacI
HindIII
HindIII
SmaI
pSROL-3"SS(NB2)
EcoRV
ClaI
NotI

Fig. 13

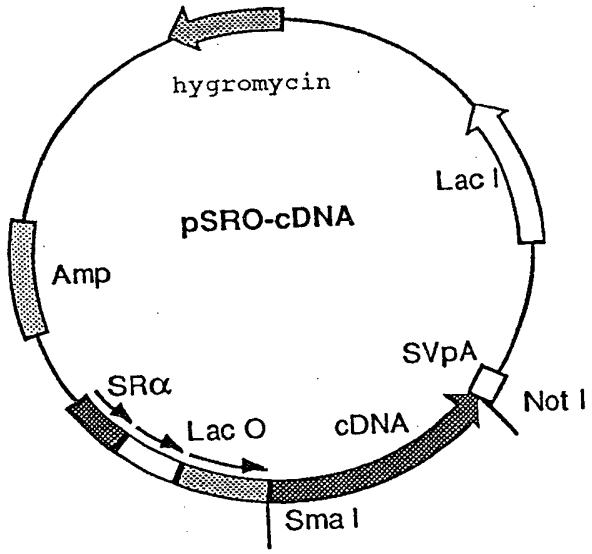


Fig. 14

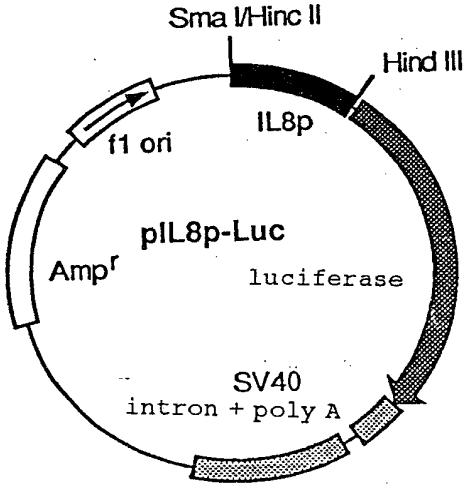

Sma I/Hinc II
Hind III
IL8p
f1 ori
pIL8p-Luc
Amp^r
luciferase
SV40
intron + poly A

Fig. 15

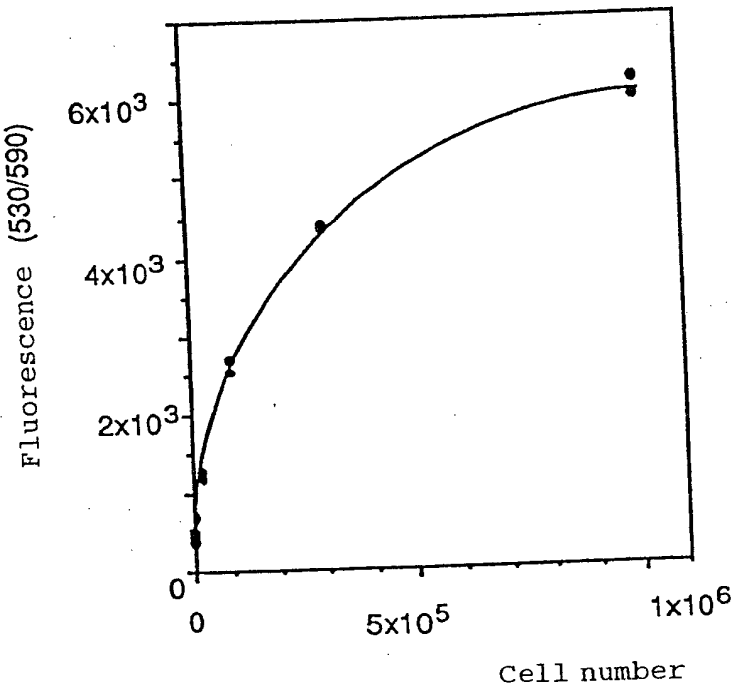

Fluorescence (530/590)
6x10^3
4x10^3
2x10^3
0
0
5x10^5
1x10^6
Cell number

Fig. 16

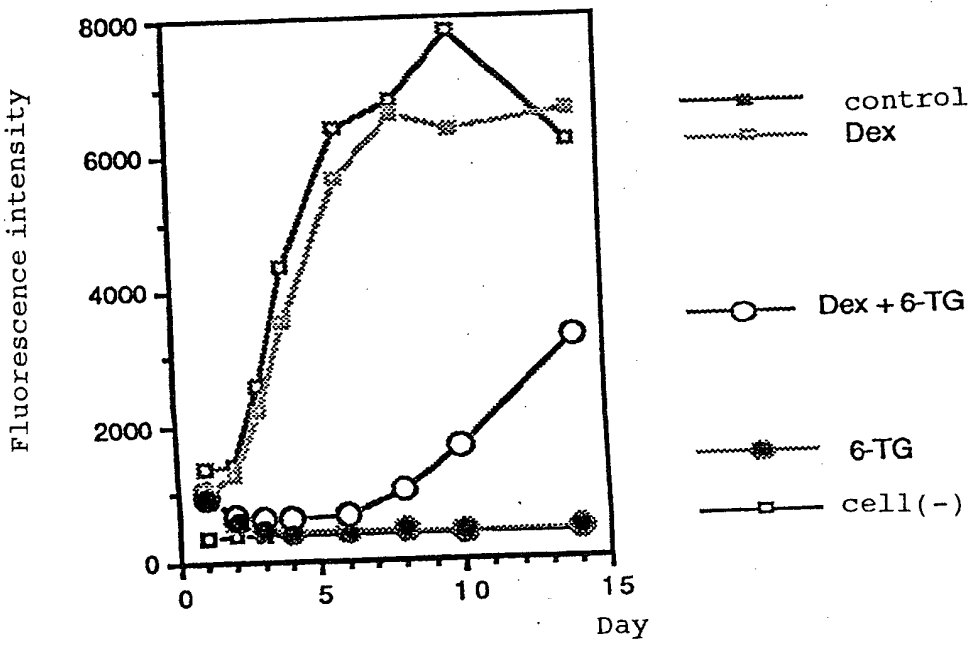
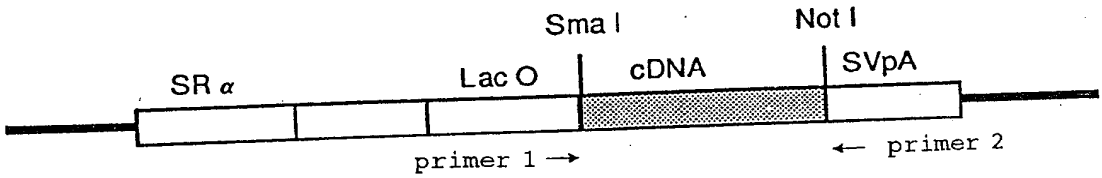
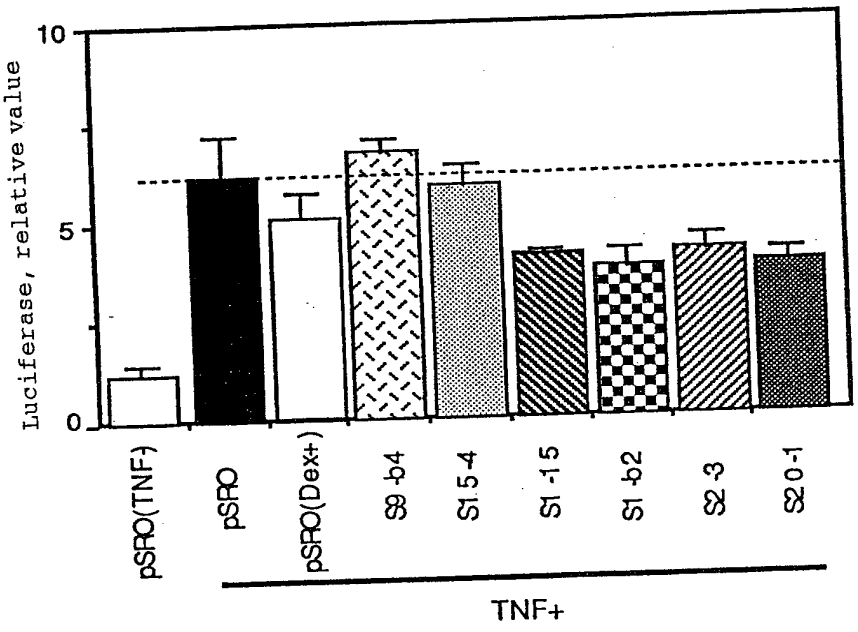

Fluorescence intensity
8000
6000
4000
2000
0
0
5
10
15
Day
control
Dex
Dex + 6-TG
6-TG
cell(-)

Fig. 17



primer 1 5'-TCGCGATTCCCACGAATCAAATGGC-3' (with the NruI site at 5' end)
primer 2 5'-TCTGGCACATACGATTTAGGT

Fig. 18


10
5
0
Luciferase, relative value
pSRO(TNF-)
pSRO
pSRO(Dex+)
S9-b4
S1 5-4
S1-15
S1-b2
S2-3
S2 0-1
TNF+